Missouri Department of Health & Senior Services

Health Update:

Acanthamoeba Keratitis

August 2, 2007

This document will be updated as new information becomes available. The current version can always be viewed at http://www.dhss.mo.gov

The Missouri Department of Health & Senior Services (DHSS) is now using 4 types of documents to provide important information to medical and public health professionals, and to other interested persons:

Health Alerts convey information of the highest level of importance which warrants immediate action or attention from Missouri health providers, emergency responders, public health agencies, and/or the public.

Health Advisories provide important information for a specific incident or situation, including that impacting neighboring states; may not require immediate action.

Health Guidances contain comprehensive information pertaining to a particular disease or condition, and include recommendations, guidelines, etc. endorsed by DHSS.

Health Updates provide new or updated information on an incident or situation; can also provide information to update a previously sent Health Alert, Health Advisory, or Health Guidance; unlikely to require immediate action.

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Web site: http://www.dhss.mo.gov

Health Update August 2, 2007

FROM: JANE DRUMMOND

DIRECTOR

SUBJECT: Acanthamoeba Keratitis

On May 31, 2007, the Missouri Department of Health and Senior Services (DHSS) issued a Health Advisory entitled "Early Report of Serious Eye Infections Associated With Soft Contact Lens Solution." It provided information on the occurrence of cases of *Acanthamoeba* keratitis (AK) in multiple states (including Missouri), which were associated with the use of Advanced Medical Optics (AMO) Complete[®] MoisturePlusTM multi-purpose solution. As a result of this association, the product was recalled by the manufacturer.

AK is not a reportable disease in Missouri (although, as indicated below, medical providers and laboratories are asked to report suspected or diagnosed cases to public health officials). DHSS is aware of at least 2 AK cases which have been diagnosed in the state in 2007, but the actual incidence of the disease is not known, Of the 2 known cases in 2007, the most recent had onset of symptoms in early May.

On July 31, 2007, the Centers for Disease Control and Prevention (CDC) issued an update on the situation (see page 2) which stated that AK cases are continuing to be reported. In at least four of these cases, the individual had continued to use AMO Complete® MoisturePlusTM multi-purpose contact lens solution after the product had been recalled. Apparently many contact lens users do not know of the recall, and may still be using the product. CDC believes that millions of bottles of the solution, purchased prior to the recall, may still be in the homes of contact lens wearers.

Clinicians evaluating contact lens users with symptoms of eye pain or redness, tearing, decreased visual acuity, discharge, sensitivity to light, or foreign body sensation should consider AK and refer the patient to an ophthalmologist, if appropriate. Early diagnosis can greatly improve treatment efficacy.

Diagnosis of AK requires a high degree of suspicion, especially in a contact lens wearer with a recent diagnosis of another form of keratitis, such as herpes simplex virus keratitis, who is not responding to therapy. Diagnosis of AK is based on clinical presentation and isolation of organisms from corneal culture or detection of trophozoites and/or cysts on histopathology. However, a negative culture does not necessarily rule out *Acanthamoeba* infection. Confocal microscopy and polymerase chain reaction assays to detect *Acanthamoeba* can also assist with diagnosis. Clinicians should consider obtaining clinical specimens (e.g., corneal scrapings) for culture before initiating treatment.

Clinicians and microbiology laboratories should report suspected or diagnosed cases of AK to their local public health agency, or to DHSS at 800/392-0272 (24/7). *Acanthamoeba* isolates should be submitted to the Missouri State Public Health Laboratory (MSPHL) according to instructions provided by MSPHL (see the form on page 3).

For more information, go to CDC's *Acanthamoeba* Infection website at: http://www.cdc.gov/ncidod/dpd/parasites/acanthamoeba/

Questions should be directed to DHSS's Bureau of Communicable Disease Control and Prevention at 573/751-6113 or 866/628-9891.

Check Your Medicine Cabinet: Consumer Knowledge of Contact Lens Solution Recall Centers for Disease Control and Prevention (CDC) July 31, 2007

CDC continues to receive reports from ophthalmologists that cases of *Acanthamoeba* keratitis, a potentially blinding infection, are occurring in the United States.

Multiple cases of infection caused by *Acanthamoeba* have occurred since May 26, 2007, the day the FDA announced the outbreak and the manufacturer issued a recall of the implicated multipurpose contact lens solution. The contact lens user in at least four of these cases continued to use AMO Complete[®] MoisturePlus™ multi-purpose contact lens solution and subsequently developed symptoms after the recall.

CDC has also learned during the interview stage of its investigation of the outbreak that many contact lens users do not know that AMO Complete[®] MoisturePlus™ multi-purpose contact lens solution has been recalled from the market because of its association with *Acanthamoeba* keratitis.

Healthy contact lens users from across the U.S. were interviewed by CDC as part of the ongoing investigation. They were asked if they had heard of a recalled contact lens solution and, if so, could they identify the name of that solution. Among the 151 people interviewed:

- 52.3% (79/151) were not aware of the recall
- Among those who were aware of the recall, only 26.8% (19/72) could correctly name the recalled product
- Of 15 people who reported using AMO Complete® MoisturePlus™ multi-purpose contact lens solution in April 2007, 80% (12/15) were still unaware of the recall and were still using the product

While FDA moved swiftly and worked with the manufacturer to enact this recall, millions of bottles of the solution, purchased prior to the recall, might still be in the homes of contact lens wearers. We are concerned that this lack of awareness among the general public – as well as eye care providers – is leading to continued use of the product by those who had purchased it prior to the recall. (It is often sold in bulk packaging at warehouse stores and bottles have a long expiration date).

Help is being sought to get the word out:

- Check your medicine cabinet for AMO Complete® MoisturePlus™ multipurpose contact lens solution.
- 2. Stop using the product immediately and contact the company at 1-888-899-9183 or on the AMO Web site for instructions on what to do with unused solution:
- 3. Discard all soft contact lenses used with AMO Complete® MoisturePlus™;
- Discard all contact lens storage cases used with AMO Complete® MoisturePlus™;
- 5. Consult your eye care provider about choosing an alternative contact lens solution;
- 6. Visit your eye care provider if you experience any signs of eye infection, including eye pain or redness, blurred vision, sensitivity to light, sensation of something in the eye, or excessive tearing and:
- 7. Visit CDC's <u>Acanthamoeba</u> Web site [http://www.cdc.gov/ncidod/dpd/parasites/acanthamoeba/] for further instructions on contact lens use and other information.

Missouri Department of Health and Senior Services	
Acanthamoeba Keratitis Specimen Submission Form	_

Instructions for Specimen Submission

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1.	Contact Stave Cladbach at the	Missouri State Public Health Laboratory (MSPHL) for specific		
1.		r shipping <i>Acanthamoeba</i> specimens. (573-751-0633)		
2.				
	•			
5.	(Please check all the			
	Corneal scrapin	ate of specimen collection:/) gs (Date of specimen collection:/)		
	Corneal biopsy	(Date of specimen collection:/)		
	Contact lenses			
	Contact lens cas	e		
	Contact lens sol			
		ecify):		
4.		cimens (e.g., contact lenses, lens cases, and lens solution) should		
	be shipped at room temperature			
5.				
	preservatives. Specimens that v	vere previously frozen should be shipped frozen on dry ice.		
6.	All specimens should be placed	in protective shipping holders with absorbent material to prevent		
	leakage or breakage.			
7.	7. The primary specimen holder must be placed in a secondary protective container for shipping, an			
then shipped as directed by MSPHL.				
Contact Per	erson at MSPHL: Steve Gladba			
	Phone: 573-7			
		n.gladbach@dhss.mo.gov		
	Mailing addr	ess: Missouri State Public Health Laboratory, 101 North Chestnut,		
C	T., C., 42	Jefferson City, MO 65101		
<u>Specimen</u>	<u>Information</u>			
ID Number	r (Assigned by MSPHL):			
(**This sho	ould be the same State/Local Stud	ly ID Number recorded on the Case Report Form**)		
(11115 5110	ould be the same State/Local State	y 15 Number recorded on the case Report Form		
Date specin	men(s) sent to MSPHL:/			
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